

[CIRCUIT AND METHOD FOR ENHANCING MOTION PICTURE QUALITY]

Abstract

A circuit structure and method for enhancing motion picture quality are provided. This circuit comprises a frame memory and two dual-port buffers. The memory structure can read the previous frame data and store the present frame data at the same time. Therefore, it can provide a simpler access control and structure of memory than the prior art. The circuit compresses the data by a nonlinear quantization method, which can reduce the size of the frame memory. The circuit uses alternate reading/writing and interpolation by using the adjacent pixels to further reduce the size of the frame memory.